



MULTI-PLAY COMPACT DISC PLAYER

# PD-M530, PD-M435, PD-M435-S AND PD-M430 HAVE FOLLOWING VERSIONS:

_		Applicab	ele model		Power requirement	Export destination	
Туре	PD-M530	PD-M435	PD-M435-S	PD-M430	Fower requirement	Export doomation	
KU	0	0		0	AC 120V only	U.S.A	
КC	0	0	_	0	AC120V only	Canada	
HEM	_	0	_	0	AC 220V, 240V (switchable) *	European continent	
HB		0		0	AC 220V, 240V (switchable) *	United Kingdom	
HEWM		_	0		AC 220V, 240V (switchable) *	European continent	
SD	0	_	_	0	AC 110V, 120V-127V, 220V, 240V (switchable)	Kingdom of SaudiArabia and General markt	
SD/G	0				AC 110V, 120V-127V, 220V, 240V (switchable)	U.S.Military	
HPW	0		_	0	AC 220V, 240V (switchable) *	Australia	

\* Change the primary wiring of the power tansformer.

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IFO MAR. 1990 Prited in Japan

# PD-M530, PD-M435, PD-M430

- This manual is applicable to the PD-M530/KU, KC, PD-M435/KU, KC, HEM, HB, PD-M435 − S/HEWM, PD-M430/KU, KC, HEM and HB types.
- As to the PD-M530/KC type, refer to page 31.
- As to the PD-M435/KC, HEM, HB and PD-M435-S/HEWM types, refer to page 32.
- As to the PD-M430/KC, HEM and HB types, refer to page 33.
- As to the other types, refer to applicable service manuals.
- The PD-M435-S is the same as the PD-M435 except for color.
- As to the adjustments, refer to the multiple CD model (PD-M530) section of the ADJUSTMENT FOR CD PLAYERS, VOL. 1 (ORDER NO. ARP2000).

# **CONTENTS**

8. FOR PD-M530/KC, PD-M435/KC, HEM, HB,
PD-M435-S/HEWM, PD-M430/KC, HEM
AND HB TYPES 3
9. PANEL FACILITIES 43
10. SPECIFICATIONS 47

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

# 1. SAFETY INFORMATION

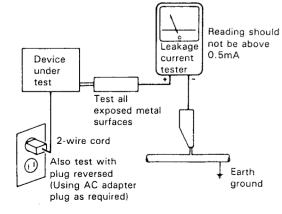
-(FOR USA MODEL ONLY)-

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A PO-TENTIAL SHOCK HAZARD AND MUST BE COR-RECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a A on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

#### (FOR EUROPEAN MODEL ONLY)

VAROI AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTUNA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF

FUNKTION UNDGÅ UDSAETTELSE FOR

OSYNLIG LASERSTRÅLNING NÄR DENNA

DEL ÄR ÖPPNAD OCH SPÄRREN

ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

ÄLÄ KATSO SÄTEESEEN.

- ADVERSEL

STRÅLING.

- VARNINGI

LASER Kuva 1

Lasersateilyn varoitusmerkki WARNING

DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER DIODE.

Picture 1 Warning sign for laser radiation

IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF HIGHER CLASS THAN 1 SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON

- LASER DIODE CHARACTERISTICS MAXIMUM OUTPUT POWER: 5 mw WAVELENGTH: 780-785 nm



#### HB type

CAUTION INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM PRW1018

#### HEM type

usynlig laserstråling ved årning når sikkerhed s Brydere er ude af funktion. Undgå udsættelse for stråling. VORSICHT

#### Additional Laser Caution

Laser Interlock Mechanism

The ON/OFF (ON: high level, OFF: low level) status of the LPS3 (S601) and LPS4 (S602) switches for detecting the loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when both switches LPS3 and LPS4 are not ON (high level) (clamped state).

Thus, interlock will no longer function if switches LPS3 (S601) and LPS4 (S602) are deliberately shorted. Also, in the test mode\*, the interlock mechanism does not operate too.

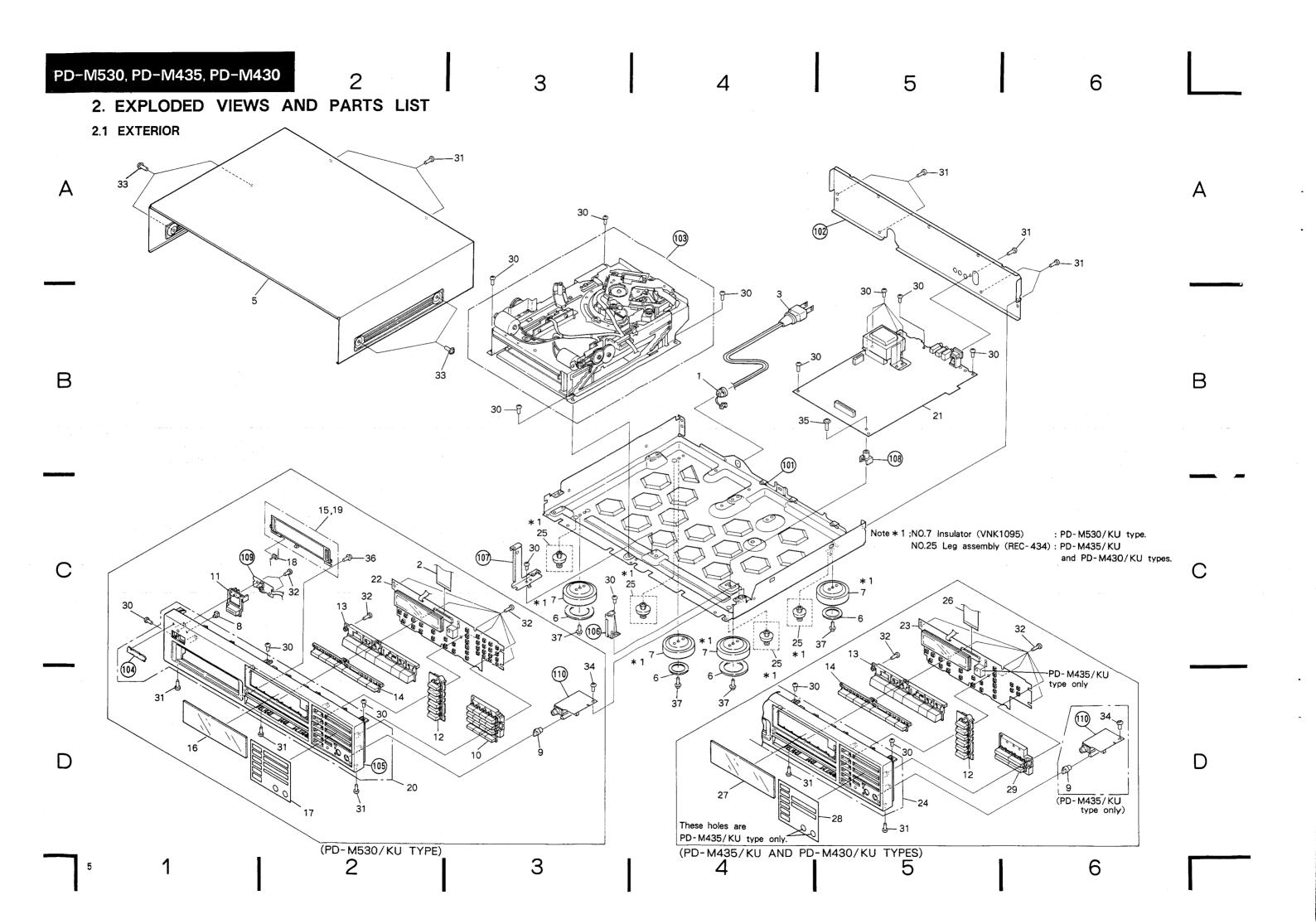
Laser diode oscillation will continue if pins 2 and 3 of CXA1471S (IC101) are connected to ground or pir 20 is connected to high level (ON) or the terminals of Q101 are shorted to each other (fault condition)

2. When the cover is opened with the servo mechanism block removed to be turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 or higher laser beam.

\*Refer to service manual ARP2000, FOR CD PLAYERS ADJUSTMENT VOL.1.

ASER PRODUCT

HEM and HB types



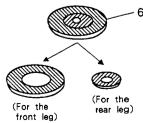
#### NOTES:

- Parts without part number cannot be supplied.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

  Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

# Parts List

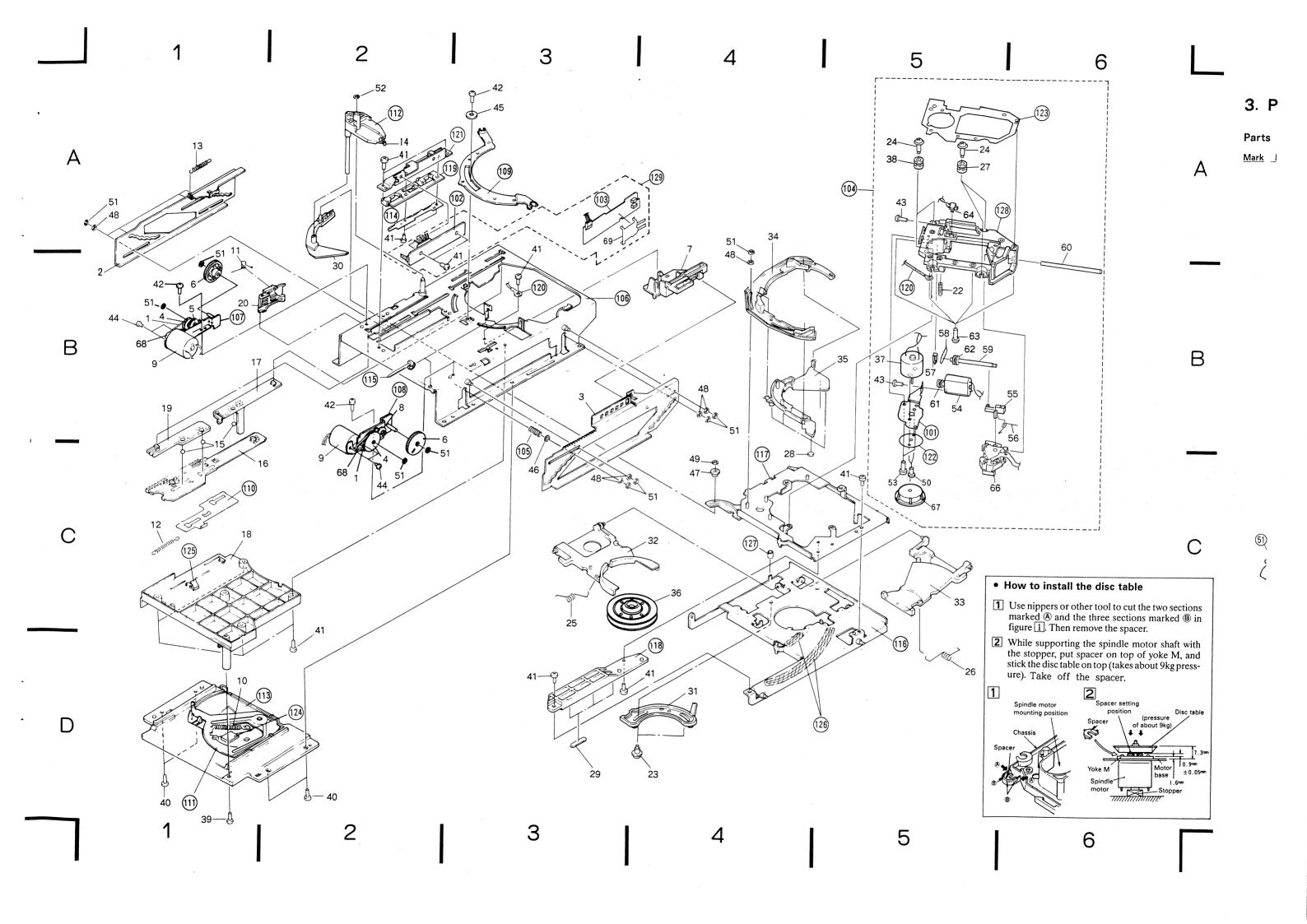
Mark	<u>No.</u>	Part No.	Description	<u>Mark</u>	No.	Part No.	Description
$\Delta$		CM-22C	Strain relief		26	PDD1052	Flexible cable (29P) (PD-M435/KU type)
		PDD1052	Flexible cable (29P) (PD-M530/KU type)		26	PDD1053	Flexible cable (27P)
Ţ		PDG1002	AC power cord		07	PAM1375	(PD-M430/KU type) Display window
$\Delta$	4	PTT1124	Power transformer (AC120V)		21	PAMI373	(PD-M435/KU type)
	_		,		27	PAM1389	Display window
		PYY1131	Bonnet				(PD-M430/KU type)
		PNM1070	Stopper (PD-M530/KUtype) *		28	PAM1372	Program name plate (PD-M435/KU type)
	7	VNK1095	Insulator		20	PAM1387	Program name plate
	Ω	AMR1160	(PD-M530/KU type) LED lens		20	1 AWITOUT	(PD-M430/KU type)
	O	7111111100	EED ICHS		29	PAC1452	Program button
	9	PAC1370	Headphone knob (PD-M530/KU and				(PD-M435/KU and PD-M430/KU types)
			PD-M435/KU types)				
	10	PAC1440	Select button			BBZ30P060FMC	Screw
			(PD-M530/KU type)			BBZ30P080FZK	Screw
		D 4 C1 450	Daniel backton			BBZ30P120FZK FBT40P080FZK	Screw Screw
		PAC1453	Power button Disc button			IBZ30P060FCC	Screw
		PAC1454 PAC1455	Function button			IBZ30P180FMC	Screw
		PAC1456	Mode button		00	102001 1001 1410	ocie w
		PAM1370	Door name plate		36	IPZ30P060FMC	Screw
			-			IBZ30P100FCC	Screw
	10	PAM1375	Display window (PD-M530/KU type)		101		Under base
	17	PAM1388	Program name plate		102		Rear base
		111111111111111111111111111111111111111	(PD-M530/KU type)		103		Multi mechanism assembly
	18	PBH1022	Door spring		104		PIONEER badge
	19	PNW1532	Door		105		Function panel
	20	PEA1053	Function panel assembly		106		Angle Center angle
	. 21	PWM1310	(PD-M530/KU type) Mother board assembly		107 108		PCB mold
•	21	L MM111210	(PD-M530/KU and		109		Power switch board
			PD-M435/KU types)		100		assembly
•	21	PWM1307	Mother board assembly		110		Headphone board assembly
Ü			(PD-M430/KU type)				(PD-M530/KU and PD-M435/KU types)
•	22	PWZ1917	Function board assembly				
•	23	PWZ1916	(PD-M530/KU type) Function board assembly				big ring part and the small
•	. 20	1 11 21010	(PD-M435/KU type)		ng part.		to the leg, stick the big ring
•	23	PWZ1915	Function board assembly (PD-M430/KU type)		rt to th		he small ring part to the rear
	24	PEA1054	Function panel assembly				6
	0.4	DE A 1059	(PD-M435/KU type)				
	24	PEA1052	Function panel assemlby (PD-M430/KU type)			<u> </u>	
	25	REC-434	Leg assembly				,
	20	1(EC404	(PD-M435/KU and				
			PD-M430/KU types)				



# 2.2 MECHANISM SECTION

# Parts List of Mechanism Section

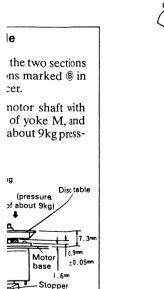
						n . N	Description
<u>Mark</u>	No.	Part No.	Description	Mark	<u>No.</u>	Part No.	Description
	1	PEB1138	Belt		49	WT12D032D025	Washer
	2	PNB1219	Stair (L)		50	JFZ20P040FMC	Screw
	3	PNB1220	Stair (R)		51	WT26D047D025	washer
	4	PNW1644	Gear pulley		52	WT31D054D025	Washer
		PNW1645	Gear			BPZ20P080FZK	Screw
							- 6 (6.757.05)
		PNW1097	Gear			PXM1013	D. C. motor (CARRIAGE)
	7	PNW1640	Select SW base			PNW1605	Half nut
	8	PNW1122	Gear			PBH1084	Drive spring
	9	PXM1011	Motor			PBK1057	Plate spring
			(LOADING, DISC SELECT)		58	PEB1072	Belt
	10	PBH-465	Eject spring		59	PLA1003	Drive screw
		PBH1014	Lock spring			PLA1071	Guide bar
		PBH1088	SM spring			PNW1634	Motor pulley
		PBH1018	Stair spring			PNW1066	Pulley
						PBZ30P080FMC	Screw
	14	PBK1009	Drive spring		00	1 D2501 0001 WC	Sciew
	15	PBP-001	Steel ball $\phi$ 4			PSH1003	Slide switch (INSIDE)
	16	PNW1099	Rack		65		
	17	PNW1641	Operation plate		66	PEA1030	Pickup assembly
	18	PNW1639	Top guide		67	PEA1035	Disc table assembly
		PNW1253	Drive plate		68	PNW1643	Motor pulley
			-			PBK1082	Plate spring
	20	PNW1395	Lock lever		101		Motor base
	21	DD111000	1		101		Switch board assembly
		PBH1009	Earth spring		102		
		PBA - 125	Screw		103		Select board assembly
	24	PBA1002	Screw		104		Servo mechanism assembly
	פר	DDIIIA16	Clampan apping (T)		105		Pressure spring
		PBH1016	Clamper spring (T)		100		Main abancia
		PBH1017	Clamper spring (B)		106		Main chassis
		PEB1014	Float rubber		107		Gear angle (L)
		PED1001	Cushion (A)		108		Gear angle (R)
	29	PED1002	Cushion (B)		109		Synchronized lever
					110		SM select
		PXA1299	Rotary lever unit				
		PNW1106	Clamper cam		111		Eject lever
	32	PNW1107	Clamper holder (T)		112		Drive lever
	33	PNW1108	Clamper holder (B)		113		Bottom guide
	34	PNW1110	Pressure cam		114		Actuater spring
					115		Binder
	35	PNW1111	Upper tray				
	36	PNW1448	Clamper		116		Sub chassis
	37	PEA1028	D. C. motor assembly		117		Upper chassis
			(SPINDLE) (with oil)		118		Upper guide
	38	PEB1132	Float rubber		119		Actuater
	20	BPZ30P100FMC	Screw		120		Earth lead unit
		IBZ30P060FCC	Screw		121		SW angle
		BBZ30P060FCC			122		Yoke M
			Screw		123		Mechanism base
		PCZ30P040FMC	Screw				
	43	PMZ20P030FMC	Screw		124		Cushion
	11	PMZ30P030FMC	Screw		125		Cushion rubber 2.5
		WA30F120M100	Washer		126		Axis-sliding sheet
			Washer		127		Rubber tube
		WA32D060D050					
		PLA1023	Roller		128		Mechanism chassis
	48	WA31D054D050	Washer		129		Mechanism board assembly

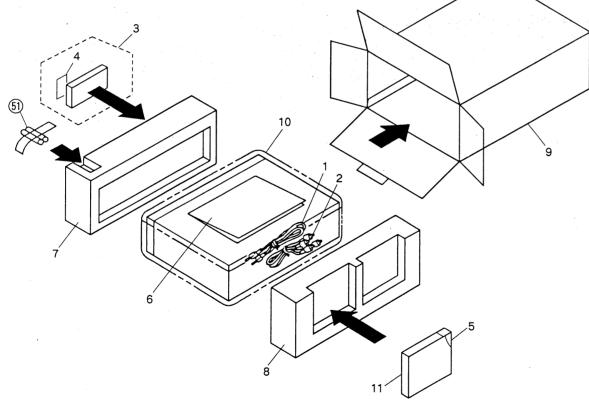


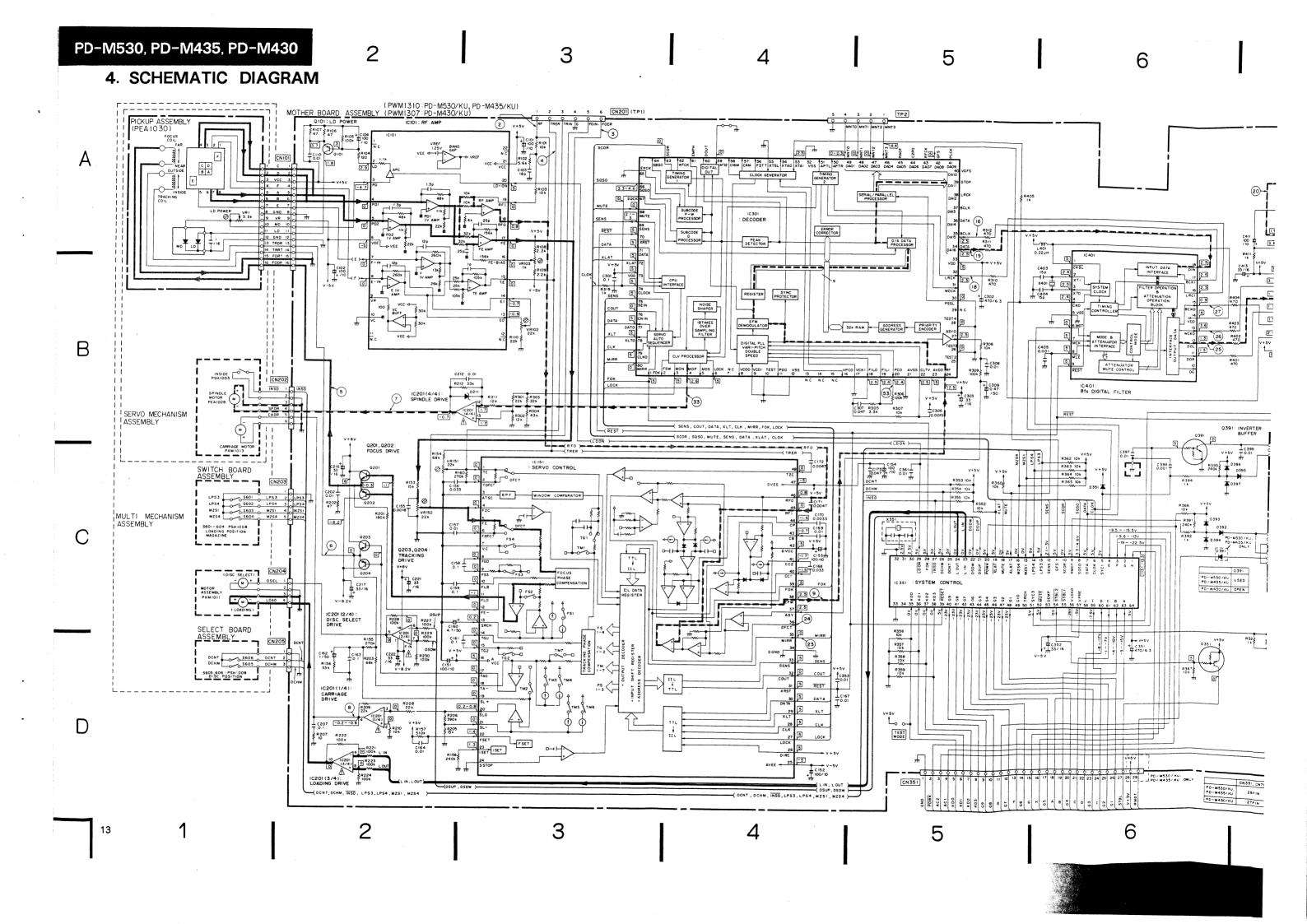
# 3. PACKING

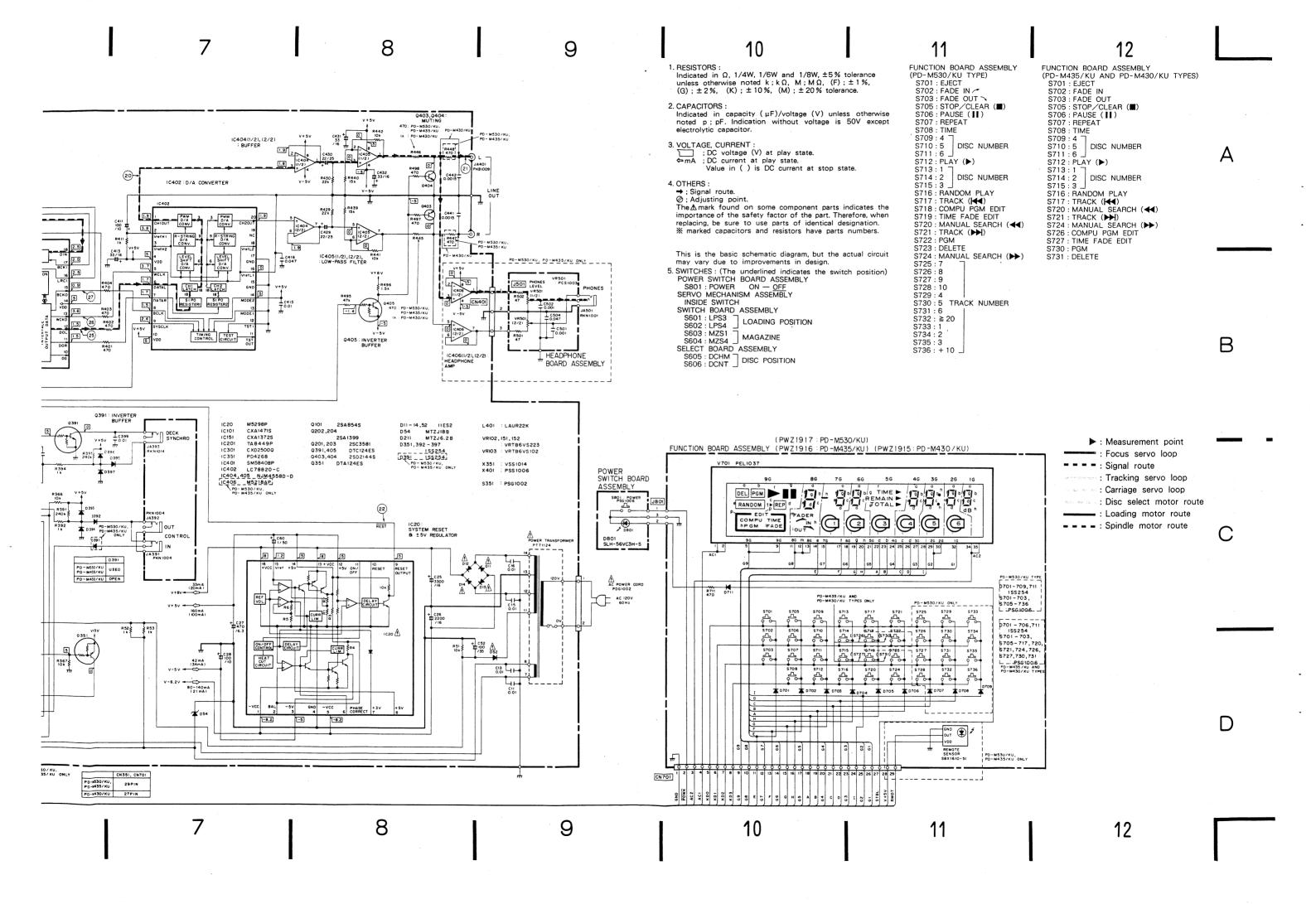
# Parts List

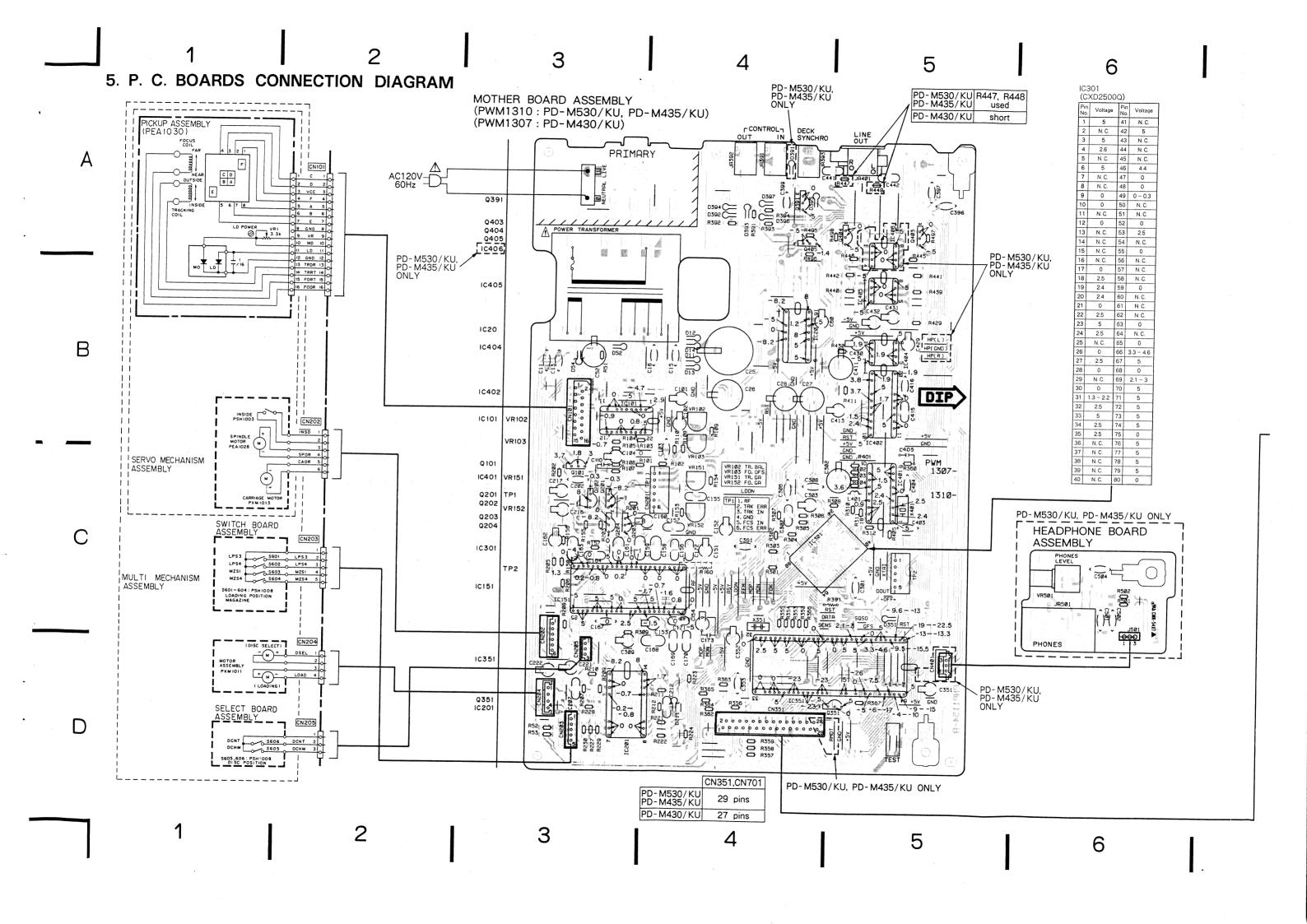
	Mark No.	Part No.	Description	Mark No.	Part No.	Description
А	1	PDE-319	Connection cord		PHA1130	Protector F
	2	PDE1001	with mini plug Connection cord with pin plug	8	PHA1131 PHG1447	Protector R CD packing case (PD-M530/KU type)
	3	PWW1049	Remote control unit (PD-M530/KU type)	9	PHG1448	CD packing case (PD-M435/KU type)
	3	PWW1050	Remote control unit (PD-M435/KU type)	9	PHG1445	CD packing case (PD-M430/KU type)
	4	PZN1001	Battery cover (PD-M530/KU type)		Z23-007 PYY1141	Mirror mat sheet PP case
	4	VNK-634	Battery cover (PD-M435/KU type)	51		Battery
	5	PXA1308	Magazine assembly			(PD-M530/KU and
	6	PRB1126	Operating instructions (English)			PD-M435/KU types)
	6	PRB1124	Operating instructions (English)			
В			(PD-M435/KU and PD-M430/KU types)			

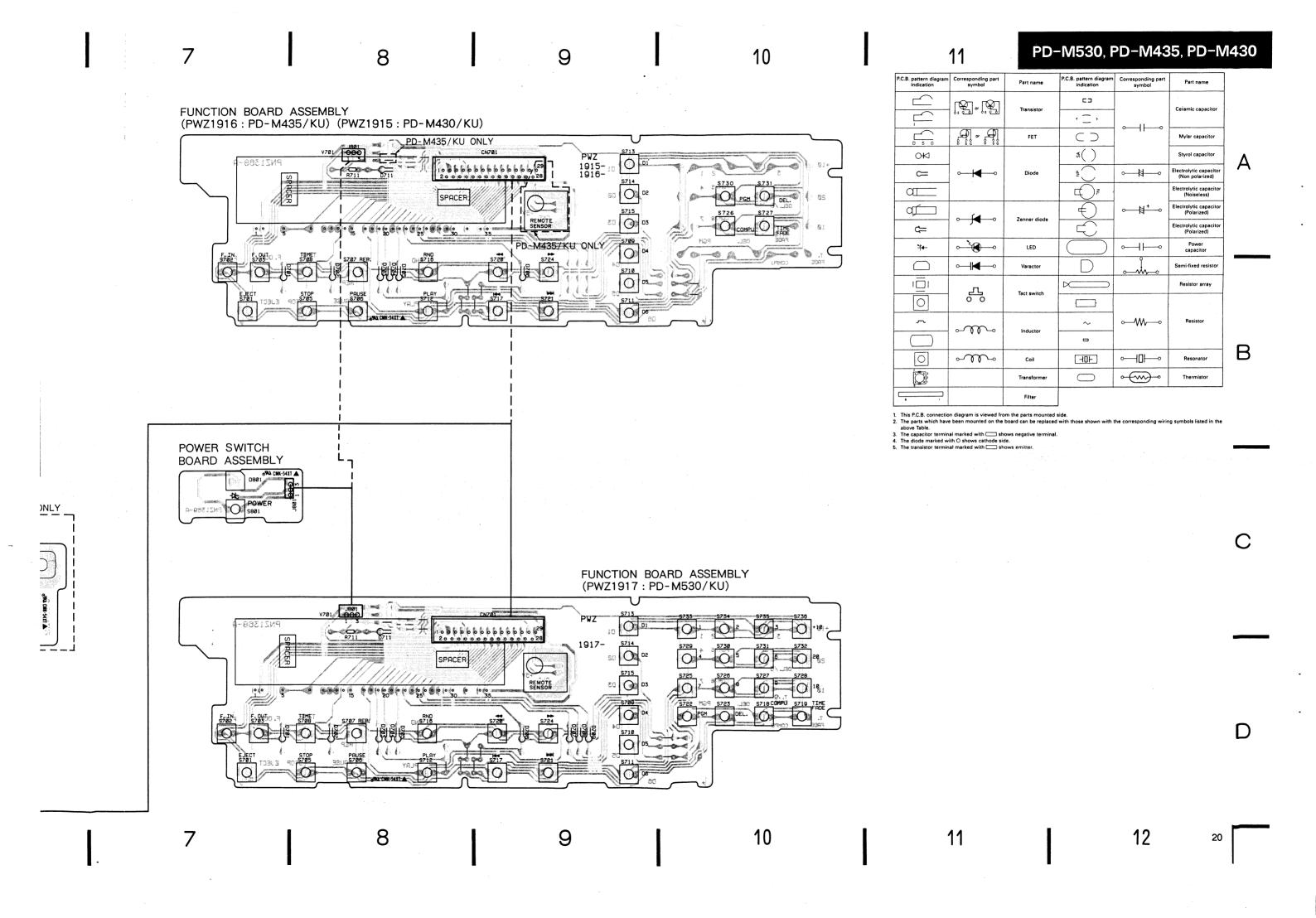


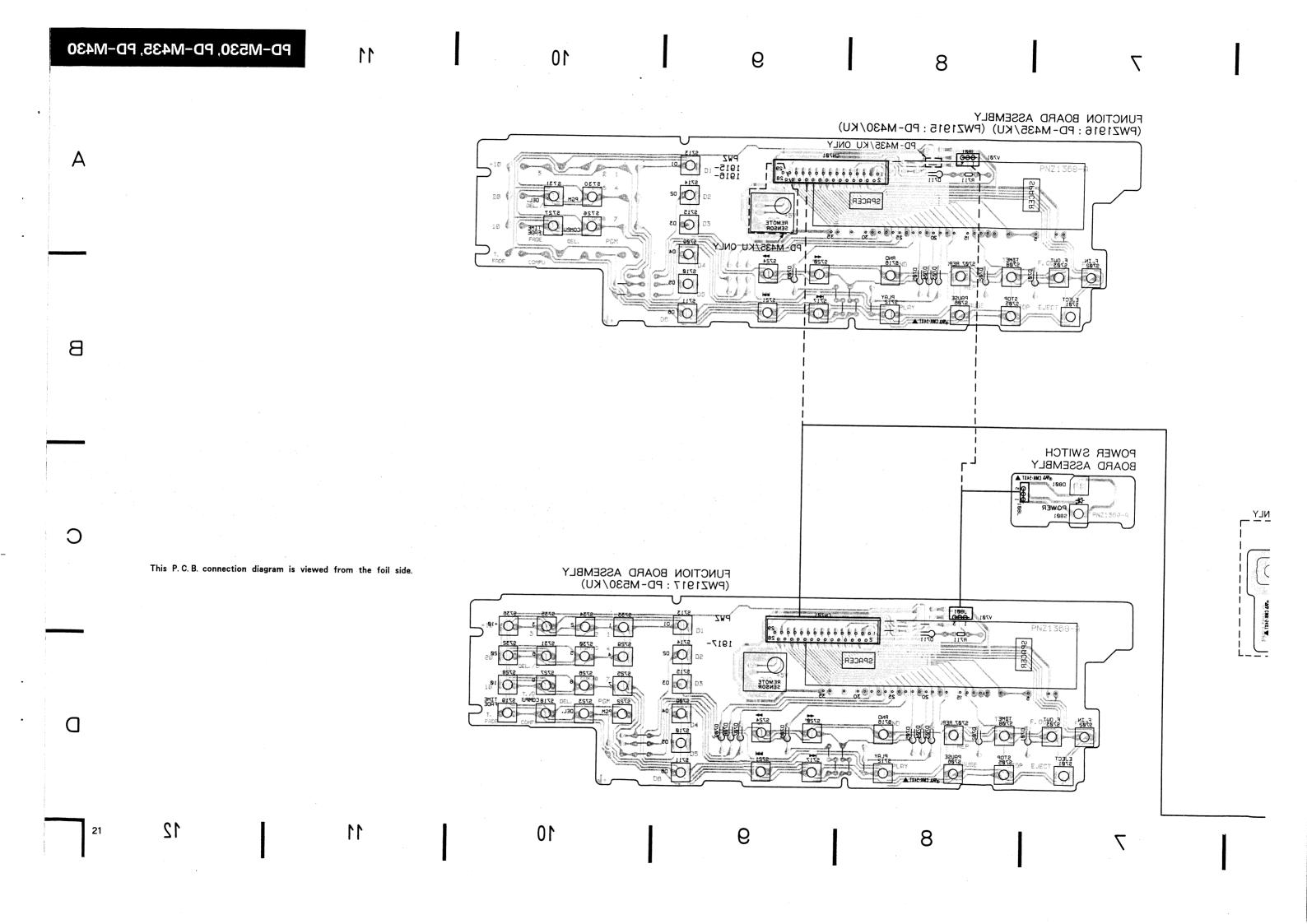


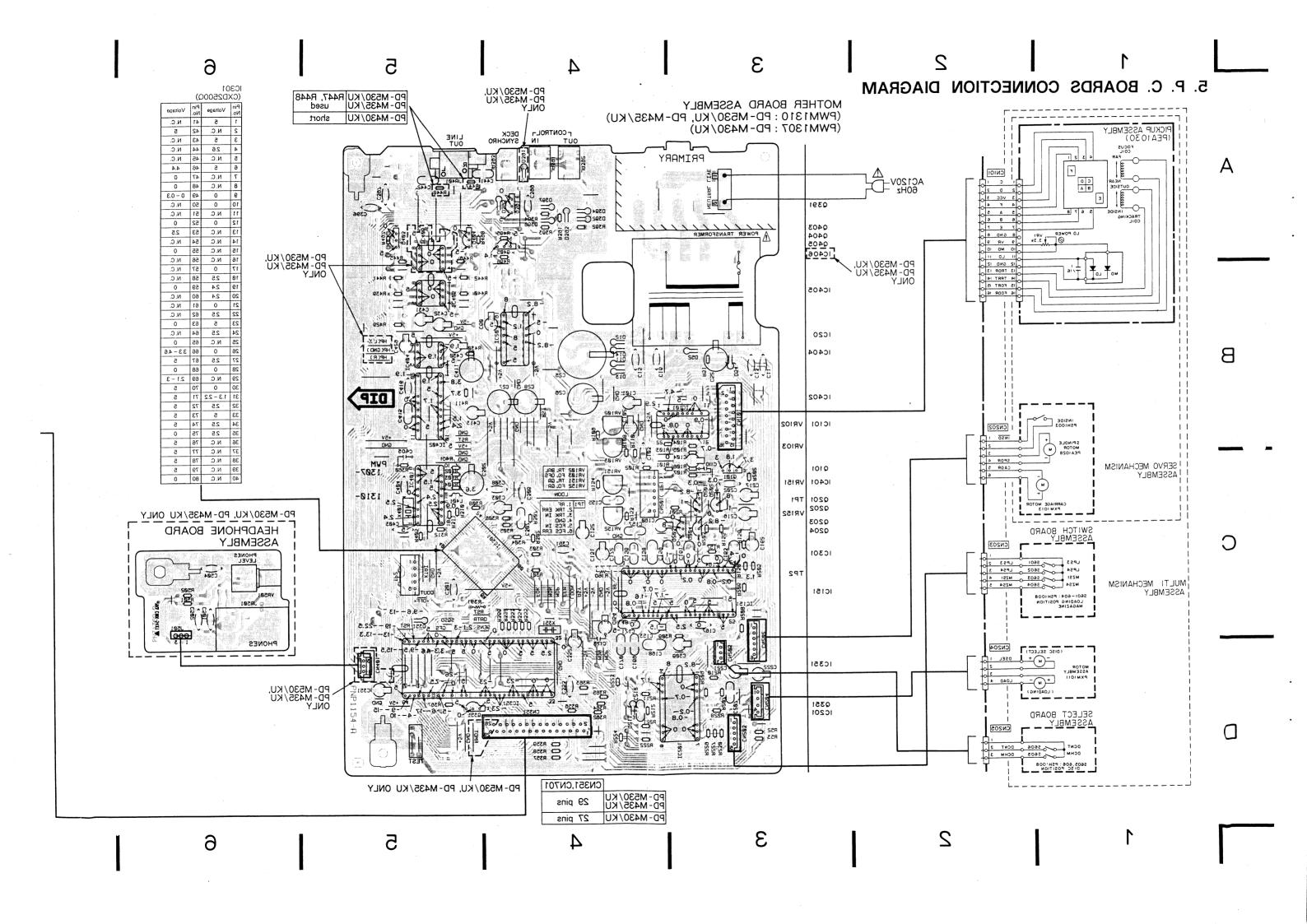










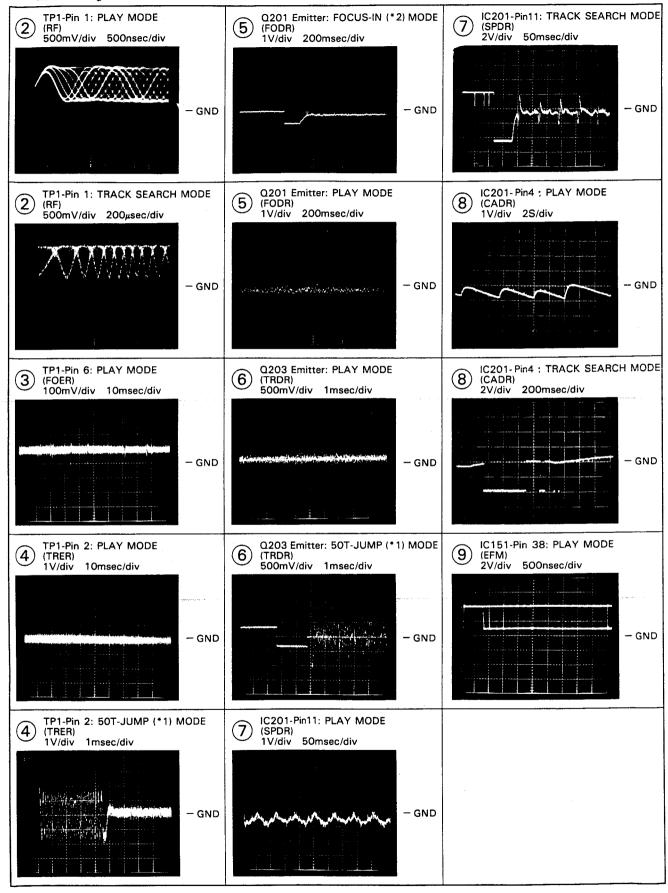


#### **Wave Forms**

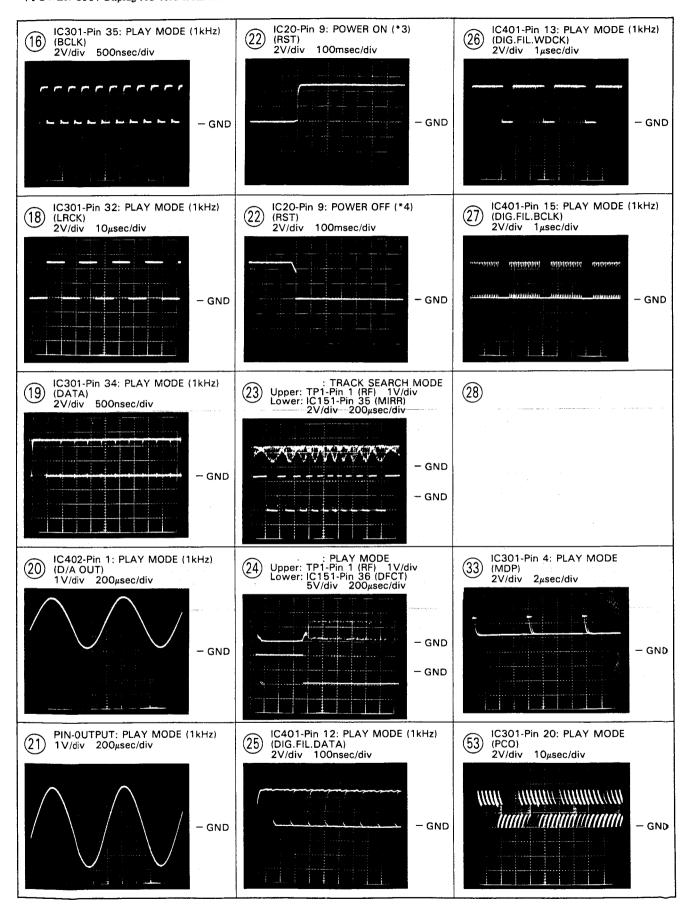
Note: The encircled numbers denote measuring points in the schematic diagram.

\*1 50T-JUMP: After switching to the pause mode, press the manual search key.

\*2 FOCUS-IN: Press the key without loading a disc.



- \*3 POWER ON: Plug AC cord into AC wall socket.
- \*4 POWER OFF: Unplug AC cord from AC wall socket.



# 6. P. C. B's PARTS LIST

#### NOTES:

• Parts without part number cannot be supplied.

● Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when

replacing, be sure to use parts of identical designation.

replacing, be sure to use parts of identical designation.

When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by  $J=5\,\%$ , and  $K=10\,\%$ ).  $560\,\Omega \rightarrow 56 \times 10^1 \rightarrow 561$   $47k\,\Omega \rightarrow 47 \times 10^3 \rightarrow 473$   $0.5\,\Omega \rightarrow 0R5$   $1\,\Omega \rightarrow 010$   $R01/4PS\,\boxed{6}\,\boxed{1}\,\boxed{3}\,$   $RN2H\,\boxed{0}\,\boxed{R}\,\boxed{5}\,K$   $1\,\Omega \rightarrow 010$   $RS1P\,\boxed{0}\,\boxed{1}\,\boxed{0}\,K$ 

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors). 5.62k  $\Omega \rightarrow 562 \times 10^1 \rightarrow 5621$  RN1/4SR 5 6 2 1 F

Mork	NO Description	Part NO. Mari	k NO	Description	Part NO.
Mo	ther board Assembly (I M530/KU AND PD-M43	PWM1310 :	C16	CERAMIC CAPACITOR	CKCYF103Z50 CEAS4R7M50
	AFOR AND DD 1442	E /VII TVDEC	C160	ELECTR. CAPACITOR	CQMA104K50
PD-I	M530/KU AND PD-M43	5/KU ITPES)	C161	MYLOR FILM CAPACITOR	CEAS010M50
051416	ONDUCTORS		C162	ELECTR. CAPACITOR MYLOR FILM CAPACITOR	CQMA104K50
SEIVIIC	CONDUCTORS	0.001.00	C163	MILOR FILM CAPACITOR	Committee into
	IC101 PRE AMP IC	CXA1471S	C164	MYLOR FILM CAPACITOR	CQMA103K50
	IC151 SERVO IC	CXA1372S	C167	CERAMIC CAPACITOR	CKCYF103Z50
Ţ	IC20 REGULATOR IC	M5298P TA8449P CXD2500Q	C168	MYLOR FILM CAPACITOR	CQMA333K50
$\Delta$	IC201 OP AMP, IC IC301 EFM DEMODULATION IC	CXD2500Q	C169	MYLOR FILM CAPACITOR	CQMA103K50
	ICSUI Erm DEMODULATION IC	CVD52006	C170	MYLOR FILM CAPACITOR	CQMA332J50
	IC351 MICROCOMPUTER	PD4268			001111701150
	TO AND DICITAL DILTED TO	SM5840BP	C171	,172 MYLOR FILM CAPACITOR	CQMA472K50
	IC402 D/A CONVERTER, IC	LC78820-C	C173	CERAMIC CAPACITOR	CKDYF473Z50
	IC404, 405 OP-AMP IC	NJM4558D-D	C202	CERAMIC CAPACITOR	CKCYF103Z50 CGCYF104Z25
	IC406	M5218AP	C207	SEMICONDUCTIVE CERAMIC	CQMA103K50
			C212	MYLOR FILM CAPACITOR	CAMVIORY
	Q101 TRANSISTOR Q201 TRANSISTOR Q202 TRANSISTOR Q203 TRANSISTOR	2SA854S	C216	, 217 ELECTR. CAPACITOR	CEAS330M16
	Q201 TRANSISTOR	25/3561 25/1200	C210	, 222 ELECTR. CAPACITOR	CEAS330M16
	Q2UZ TRANSISIUK	25U3233	C25		CEAS332M16
	Q204 TRANSISTOR	2541399	C26	ELECTR. CAPACITOR	CEAS222M16
	Q204 TRANSISION	2SA854S 2SC3581 2SA1399 2SC3581 2SA1399	C27	ELECTROLYTIC CAPACIT	CEAS471M6R3
	Q351 TRANSISTOR	DTA124ES			CEACIOINIO
	Q391 TRANSISTOR	DTC124ES	C28	ELECTR. CAPACITOR	CEAS101M10 CQMA104K50
	Q403 TRANSISTOR	2SD2144S	C301	MYLOR FILM CAPACITOR	CEAS471M6R3
	Q404 TRANSISTOR	2SD2144S		ELECTROLYTIC CAPACIT	CEAS330M16
	Q405 TRANSISTOR	DTC124ES	C303	B ELECTR. CAPACITOR CERAMIC CAPACITOR	CKCYB152K50
	DIA 14 DIADE	11ES2	Cou	CERAMIC CAI ACTION	0.1012
$\Delta\!$	D11-14 DIODE	MTZJ6. 2B	C307	MYLOR FILM CAPACITOR	CQMA473J50
	D211 ZENNER DIODE D351 DIODE	1SS254	C308	MYLOR FILM CAPACITOR	CQMA103K50
	D301_307 DIODE	1SS254	C309	ELECTR. CAPACITOR	CEASR47M50
	D52 DIODE	11ES2	C35	ELECTROLYTIC CAPACIT	CEAS471M6R3
2:2	D52 DIODE D54 ZENNER DIODE	MTZJ18B	C35	ELECTR. CAPACITOR	CEAS330M16
0011			Car	3,361 CERAMIC CAPACITOR	CKCYF103Z50
COIL		1.41/0.01/	C301	S CERAMIC CAPACITOR	CKDYB102K50
	L401	LAUR22K	C38.	7. 399 CERAMIC CAPACITOR	CKCYF103Z50
CAPA	CITORS		C40:	3, 404 CERAMIC CAPACITOR	CCCCH150J50
OAI F	C101, 102 ELECTR. CAPACITOR	CEAS101M10	C40	5 CERAMIC CAPACITOR	CKDYB102K50
	C101, 102 ELECTR. CAPACITOR	CCCCH180J50	• • • • • • • • • • • • • • • • • • • •	-	
	C104 ELECTR. CAPACITOR	CEAS101M10	C41	1 ELECTR. CAPACITOR	CEAS101M10
	C11, 110 CERAMIC CAPACITOR	CKDYF103Z50		3 ELECTR. CAPACITOR	CEAS330M16
	C13, 15 CERAMIC CAPACITOR	CKCYF103Z50	C41	5 CERAMIC CAPACITOR	CKCYF103Z50
	520, 20 Gammer 5 Gammer 5		C41	6 CERAMIC CAPACITOR	CKCYF473Z50
	C151-154 ELECTR. CAPACITOR	CEAS101M10	C42	9, 430 ELECTR. CAPACITOR	CEAS220M25
	C155 MYLOR FILM CAPACITOR	CQMA182J50		. AND DIDCED CADACITAD	CEAS330M16
	C156 MYLOR FILM CAPACITOR	CQMA333K50	C43	1, 432 ELECTR. CAPACITOR	CQMA152J50
	C157 MYLOR FILM CAPACITOR	CQMA103K50	C44	1,442 MYLOR FILM CAPACITOR	CEAS101M35
	C158, 159 MYLOR FILM CAPACITOR	CQMA104K50	C52	ELECTR. CAPACITOR ELECTR. CAPACITOR	CEAS010M50
			C60	ELECIA, CAFACITOR	CDUDOLOMOO

Mark	NO Description	Part NO.	Mark	NO	<b>Description</b>	Part NO.
RESIS	STORS			C16	CERAMIC CAPACITOR ELECTR. CAPACITOR	CKCYF103Z50 CEAS4R7M50
112010	VR102 Semi-fixed $(22K\Omega)$ VR103 Semi-fixed $(1k\Omega)$ VR151, VR152 Semi-fixed $(22k\Omega)$ Other resistors	VRTB6VS223		C161	MYLOR FILM CAPACITOR	CQMA104K50
	VR103 Semi-fixed ( $1k\Omega$ ) VR151 VR152 Semi-fixed ( $22k\Omega$ )	VRTB6VS102 VRTB6VS223		C162 C163	ELECTR. CAPACITOR MYLOR FILM CAPACITOR	CEAS010M50 CQMA104K50
	Other resistors	RD1/6PM□□□J		C164		CQMA103K50
OTHE	:RS			C167	MYLOR FILM CAPACITOR CERAMIC CAPACITOR	CKCYF103Z50
	X351 CERAMIC RESONATOR X401 XTAL RES (OSC)	VSS1014 PSS1006			MYLOR FILM CAPACITOR MYLOR FILM CAPACITOR	CQMA333K50 CQMA103K50
	JA391, 392 JACK/12V	PKN1004			MYLOR FILM CAPACITOR	CQMA332J50
	(CONTROL IN/OUT) JA393 Mini jack(DECK SYNCHRO)	RKN1014		C171,	172 MYLOR FILM CAPACITOR	•
	JA401 2P pin jack(LINE OUT)	RKN1014 PKB1009 52045-1610 HLEM29S-1		C173	CERAMIC CAPACITOR	CKDYF473Z50 CKCYF103Z50
	CN101 CONNECTOR	52045-1610		C207	SEMICONDUCTIVE CERAMIC	CGCYF104Z25
	CN351 CONNECTOR	HLEM29S-1		C212	MYLOR FILM CAPACITOR	CQMA103K50
					217 ELECTR. CAPACITOR 222 ELECTR. CAPACITOR	CEAS330M16 CEAS330M16
	other Board Assembly			C25	ELECTR. CAPACITOR	CEAS332M16
(PV	VM1307 : PD-M430/KU	J TYPE)		C26 C27	ELECTR. CAPACITOR ELECTROLYTIC CAPACIT	CEAS222M16 CEAS471M6R3
SEMI	CONDUCTORS			C28	ELECTR CAPACITOR	CEAS101M10
	IC101 PRE AMP IC	CXA1471S		C301	MYLOR FILM CAPACITOR	CQMA104K50
$\Delta$	IC101 FRE AMIF IC IC151 SERVO IC IC20 REGULATOR IC IC201 OP AMP, IC	CXA1372S M5298P		C302	ELECTROLYTIC CAPACIT ELECTR, CAPACITOR	CEAS471M6R3 CEAS330M16
$\overline{\Delta}$	IC201 OP AMP, IC	TA8449P		C306	ELECTR. CAPACITOR MYLOR FILM CAPACITOR ELECTROLYTIC CAPACIT ELECTR. CAPACITOR CERAMIC CAPACITOR	CKCYB152K50
	IC301 EFM DEMODULATION IC			C307	MYLOR FILM CAPACITOR	CQMA473J50
	IC351 MICROCOMPUTER IC401 DIGITAL FILTER, IC	PD4268 SM5840BP			MYLOR FILM CAPACITOR ELECTR. CAPACITOR	CQMA103K50 CEASR47M50
	IC351 MICROCOMPUTER IC401 DIGITAL FILTER, IC IC402 D/A CONVERTER, IC IC404, 405 OP-AMP IC	LC78820-C N IM4558D-D			ELECTROLYTIC CAPACIT ELECTR. CAPACITOR	CEAS471M6R3 CEAS330M16
	Q101 TRANSISTOR	2SA854S				
	Q201 TRANSISTOR	2SC3581		C353, C396	361 CERAMIC CAPACITOR CERAMIC CAPACITOR 399 CERAMIC CAPACITOR 404 CERAMIC CAPACITOR	CKCYF103Z50 CKDYB102K50
	Q202 TRANSISTOR Q203 TRANSISTOR	2SA1399 2SC3581		C397,	399 CERAMIC CAPACITOR 404 CERAMIC CAPACITOR	CKCYF103Z50 CCCCH150J50
	Q204 TRANSISTOR	2SA1399			CERAMIC CAPACITOR	CKDYB102K50
	Q351 TRANSISTOR	DTA124ES		C411	ELECTR. CAPACITOR	CEAS101M10
	Q391 TRANSISTOR Q403, 404 TRANSISTOR	DTC124ES 2SD2144S		C413	ELECTR. CAPACITOR	CEAS330M16 CKCYF103Z50
	Q405 TRANSISTOR	DTC124ES		C416	CERAMIC CAPACITOR CERAMIC CAPACITOR	CKCYF473Z50
$\Delta$	D11-14 DIODE D211 ZENNER DIODE	11ES2 MTZJ6.2B		C429, C431.	ELECTR. CAPACITOR ELECTR. CAPACITOR CERAMIC CAPACITOR CERAMIC CAPACITOR 430 ELECTR. CAPACITOR 432 ELECTR. CAPACITOR	CEAS220M25 CEAS330M16
	D351 DIODE	1SS254			442 MYLOR FILM CAPACITOR	CQMA152J50
	D392-397 DIODE	1SS254		C52	ELECTR. CAPACITOR	CEAS101M35
$\Delta$	D52 DIODE D54 ZENNER DIODE	11ES2 MTZJ18B		C60	ELECTR. CAPACITOR	CEAS010M50
COIL			RESIS		S Semi-fixed(22kΩ)	VRTB6VS223
	L401	LAUR22K		VR103	Semi-fixed(1kΩ)	VRTB6VS102
CAPA	CITORS				l,152 Semi-fixed(22kΩ) resistors	VRTB6VS223 RD1/6PM□□□J
	C101, 102 ELECTR. CAPACITOR C103 CERAMIC CAPACITOR	CEAS101M10 CCCCH180J50	OTHE			
	C104 ELECTR. CAPACITOR	CEAS101M10		X351	CERAMIC RESONATOR	VSS1014
	C11,110 CERAMIC CAPACITOR C13,15 CERAMIC CAPACITOR	CKDYF103Z50 CKCYF103Z50			XTAL RES (OSC) 1.392 JACK/12V	PSS1006 PKN1004
				(CON	VTROL IN/OUT)	
	C151-154 ELECTR. CAPACITOR C155 MYLOR FILM CAPACITOR	CEAS101M10 CQMA182J50		JA393	B Mini jack(DECK SYNCHRO)	RKN1014
	C156 MYLOR FILM CAPACITOR	CQMA333K50			2P Pin jack(LINE OUT)	PKB1009
	C157 MYLOR FILM CAPACITOR C158,159 MYLOR FILM CAPACITOR	CQMA103K50 CQMA104K50			CONNECTOR CONNECTOR	52045-1610 HLEM27S-1
•						

Part NO. Part NO. Mark NO Description Mark NO Description **SWITCHES** Function Board Assembly S701-703, 705-717, 720, 721, 724, S726, 727, 730, 731 Tact switch (EJECT(♠), AUTO FADER( IN, OUT →), STOP/CLEAR(♠), PAUSE (▮), REPEAT, TIME, DISC NUMBER PSG1006 (PWZ1917: PD-M530/KU TYPE) **SEMICONDUCTORS** D701-709 DIODE 1SS254 D711 DIODE (1-6), PLAY(►), RANDOM PLAY, 1SS254 TRACK((◄◄,▶►), MANUAL(▶►,◄◄ **SWITCHES** PGM. DELETE, COMPU PGM EDIT, S701-703, 705-736 Tact switch PSG1006 TIME FADE EDIT [EJECT(▲), AUTO FADER( / IN, RESISTOR OUT →), STOP/CLEAR(■), PAUSE RD1/6PM471J R711 CARBONFILM RESISTOR ( | | ), REPEAT, TIME, DISC NUMBER (1-6), PLAY(▶), RANDOM PLAY, **OTHERS**  $TRACK( \downarrow \blacktriangleleft, \blacktriangleright \blacktriangleright \downarrow), MANUAL( \blacktriangleright \blacktriangleright, \blacktriangleleft \blacktriangleleft)$ PGM, DELETE, COMPU PGM EDIT, V701 FL INDICATOR TUBE PEL1037 TIME FADE EDIT, TRACK NUMBER CN701 CONNECTOR HLEM27R-1  $(1-10, +10, \ge 20)$ RESISTOR Power switch Board Assembly RD1/6PM471J R711 CARBONFILM RESISTOR **SEMICONDUCTOR OTHERS** SLH-56VC3H D801 V701 FL INDICATOR TUBE PEL1037 CN701 CONNECTOR HLEM29R-1 **SWITCH** REMOTE SENSOR SBX1610-51 PSG1006 S801 SWITCH(POWER) Function Board Assembly Headphone Board Assembly (PWZ1916: PD-M435/KU TYPE) (PD-M530/KU AND PD-M435/KU **SEMICONDUCTORS** TYPES ONLY) D701-706 DIODE 1SS254 D711 DIODE 1SS254 **CAPACITORS SWITCHES** CKCYB102K50 C501, 502 CERAMIC CAPACITOR PSG1006 C504 CERAMIC CAPACITOR CKCYF473Z50 \$701-703, 705-717, 720, 721, 724, S726, 727, 730, 731 Tact switch EJECT(♠), AUTO FADER(✓IN, OUT →), STOP/CLEAR(■), PAUSE RESISTORS VR501 VARIABLE REISITOR PCS1003 (PHONES LEVEL) R501, 502 CARBON FILM RESISTOR RD1/6PM470J (1-6), PLAY(►), RANDOM PLAY,  $TRACK(\bowtie, \bowtie)$ ,  $MANUAL(\bowtie, \blacktriangleleft)$ **OTHERS** PGM, DELETE, COMPU PGM EDIT, RKN1001 JA501 Headphone jack (PHONES) TIME FADE EDIT RESISTOR R711 CARBONFILM RESISTOR RD1/6PM471J SELECT Board Assembly **OTHERS SWITCHES** PEL1037 V701 FL INDICATOR TUBE PSH1008 S605,606 Push switch CN701 CONNECTOR HLEM29R-1 (DISC POSITION) REMOTE SENSOR SBX1610-51 SWITCH Board Assembly Function Board Assembly (PWZ1915: PD-M430/KU TYPE) **SWITCHES** PSH1008 S601-604 Push switch **SEMICONDUCTORS** (LOADING POSITION, MAGAZINE)

D701-706 DIODE

D711 DIODE

1SS254

1SS254

# 7. IC INFORMATION

# ■LC78820-C (IC402)

D/A CONVERTER

# • Pin functions

No.	Pin name	Function	No.	Pin name			
1	CHIOUT	CH1 output (Lch)	9	SYSCLK	System clock input. (This signal is a main clock for operating the LSI and switch the		
2	VrefH1	Reference voltage "H" input 1	,	OTOCER	interface by MODE (MODE 1 and 2).		
3	VrefH2	Reference voltage "H" input 2	10	VDD	+5V power supply		
4	VDD	+5V power supply	11	TSTOUT	Output for TEST. Open at the normal state.		
		Word clock input. Generate the internal signal		TST1	Input for TEST. GND at the normal state.		
5	WCLK	for latch the digital audio data (DATAL and	13	MODE1	Switch the interface		
		DATAR)	14	MODE2	Switch the interface		
		Digital audio data input (Lch). Bit serial input	15	GND	GND		
6	DATAL	from the MSB. (Data is 2's complement type.)	16	VrefL1	Reference voltage "L" input 1.		
		Digital audio data input (Rch). Bit serial input	17	GND	GND		
7	DATAR	from the MSB. (Data is 2's complement type.)	18	VrefL2	Reference voltage "L" input 2.		
-		Bit clock input for reading the digital audio	19	NC	No connection.		
8	BCLK	data with bit serial to the LSI internal.		CH2OUT	CH2 output (Rch).		

# 8. FOR PD-M530/KC, PD-M435/KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KC, HEM AND HB TYPES

#### NOTES

• Parts without part number cannot be supplied.

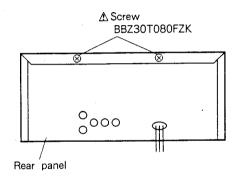
• Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

# CAUTION: About the locking screw of the bonnet for the PD-M435/HB and PD-M430/HB types.



- ① As to the PD-M435/HB and PD-M430/HB types, the locking screw (Part No. BBZ30T080FZK) for install the bonnet should be used.
- ② When the locking screw is removed or tightened, use the "TORX SCREW DRIVER, SIZE T10"

# 8.1 FOR PD-M530/KC TYPE

## CONTRAST OF MISCELLANEOUS PARTS

The PD-M530/KC type is the same as the PD-M530/KU type with the exception of the following sections.

Mark		Part	Remarks	
	Symbol & Description	PD-M530/KU type	PD-M530/KC type	Nemarks
	CD packing case Operating instructions (French)	PHG1447	PHG1449 PRC1026	For packing

Note: As to the SCHEMATIC DIAGRAM and P. C. BOARDS CONNECTION DIAGRAM, refer to those of PD-M530 /KU type.

# 8.2 FOR PD-M435/KC, HEM, HB AND PD-M435-S/HEWM TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD-M435/KC, HEM, HB and PD-M435-S/HEWM types are the same as the PD-M435/KU type with the exception of the following sections.

				Part No.			
Mark	Symbol & Description	PD-M435 /KU type	PD-M435 /KC type	PD-M435 /HEM type	PD-M435 /HB type	PD-M435-S /HEWM type	Remarks
<ul><li>♠</li><li>♠</li><li>♠</li></ul>	Mother board assembly Power transformer (AC120V) Power transformer (AC220V,240V) AC power cord	PWM1310 PTT1124 PDG1002	PWM1310 PTT1124 PDG1002	PWM1312 PTT1125 PDG1003	PWM1312 PTT1125 PDG1004	PWM1312 PTT1125 PDG1003	
Δ	Strain relief CD packing case Connection cord with mini plug Leg assembly Insulator	CM-22C PHG1448	CM-22C PHG1444 PDE-319 REC-434	CM-22B PHG1444  VNK1095	CM-22B PHG1444  VNK1095	CM-22B PHG1514  VNK1095	For packing
	Stopper Operating instructions (English) Operating instructions (French) Operating instructions (English/French/Dutch/Italian /German/Swedish/Spanish /Portgauese)	PRB1124	PRB1124 PRC1025	PNM1070 PRE1121	PNM1070 PRB1124	PNM1070  PRE1121	
	Display window Headphone knob Program button Program button S Power button	PAM1375 PAC1370 PAC1452 PAC1453	PAM1375 PAC1370 PAC1452 PAC1453	PAM1417 PAC1370 PAC1452 PAC1453	PAM1417 PAC1370 PAC1452 PAC1453	PAM1417 PAC1402 PAC1500	
	Power button S Disc button Disc button S Function button Function button S	PAC1454 PAC1455	PAC1454 PAC1455	PAC1454 PAC1455	PAC1454 PAC1455	PAC1487 PAC1490 PAC1489	
	Mode button Mode button S Door name plate Door name plate S Program name plate	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1488 PAM1421	
	Program name plate S Function panel assembly Door Door S Bonnet Screw	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131 BBZ30T080FZK	PAM1423 PEA1079 PNW1751 PYY1138	For bonnet

Note: As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M435/KC type, refer to those of PD-M435/KU type.

# MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1312) is the same as the Mother board assembly (PWM1310) with the exception of the following sections.

Mark	Combal & Description	Part	D	
	Symbol & Description	PWM1310	PWM1312	Remarks
<u>^</u>	IC30 D11 - D14 D25 D391 - D394 R391	11ES2 1SS254 RD1/6PM244J	ICP-N10 2W02-5008-L	
	R392 JA391,JA392 (CONTROL IN/OUT)	RD1/6PM102J PKN1004	:::::	

# 8.3 FOR PD-M430/KC, HEM, AND HB TYPES

# CONTRAST OF MISCELLANEOUS PARTS

The PD-M430/KC, HEM and HB types are the same as the PD-M430/KU type with the exception of the following sections.

			Part	No.		
Mark	Symbol & Description	PD-M430 /KU type	PD-M430 /KC type	PD-M430 /HEM type	PD-M430 /HB type	Remarks
<ul><li>♠</li><li>♠</li><li>♠</li><li>♠</li><li>♠</li></ul>	Mother board assembly Headphone board assembly Power transformer (AC120V) Power transformer (AC220V,240V) AC power cord	PWM1307 PTT1124 PDG1002	PWM1307 PTT1124 PDG1002	PWM1309 Non supply PTT1125 PDG1008	PWM1309 Non supply PTT1125 PDG1009	·
Δ	Strain relief Leg assembly Insulator Stopper Operating instructions (English)	CM-22C REC-434 	CM-22C REC-434 	CM-22B VNK1095 PNM1070	CM-22B VNK1095 PNM1070 PRB1124	
	Operating instructions (French) Operating instructions (English/French/Dutch/Italian/ German/Swedish/Spanis /Portgauese) CD packing case	PHG1445	PRC1025 ••••• PHG1446	PRE1121	PHG1446	For packing
⚠	Program name plate Display window Headphone knob Screw	PAM1387 PAM1389	PAM1387 PAM1389	PAM1420 PAM1418 PAC1370	PAM1420 PAM1418 PAC1370 BBZ30T080FZK	For bonnet

Note: As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M430/KC type, refer to those of PD-M430/KU type.

# MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1309) is the same as the Mother board assembly (PWM1307) with the exception of the following sections.

Mark		Part	Remarks	
	Symbol & Description	PWM1307	PWM1309	Nemarks
Δ Δ	IC30 IC406 D11 - D14 D25 R445.R446 R447.R448	11ES2 RD1/6PM102J	ICP-N10 M5218AP 	

## HEADPHONE BOARD ASSEMBLY

The Headphone board assemblies of PD-M430/HEM and HB types are the same as that of PD-M530/KU and PD-M435/KU types. (See page 29)

# 8. FOR PD-M530/KC, PD-M435/KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KC, HEM AND HB TYPES

#### NOTES:

• Parts without part number cannot be supplied.

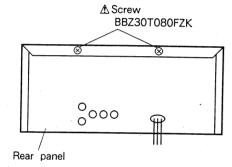
● Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable. ● The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

 When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

0.5 Ω → 0R5 ······· RN2HOR5K 1 Ω→010 ····· RS1P 0 1 0 K Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω→562 × 10<sup>1</sup> →5621 ······

# CAUTION: About the locking screw of the bonnet for the PD-M435/HB and PD-M430/HB types.



- $\ensuremath{\text{\scriptsize 1}}\xspace$  As to the PD-M435/HB and PD-M430/HB types, the locking screw (Part No. BBZ30T080FZK) for install the bonnet should be used.
- ② When the locking screw is removed or tightened, use the "TORX SCREW DRIVER, SIZE T10"

# 8.1 FOR PD-M530/KC TYPE

# CONTRAST OF MISCELLANEOUS PARTS

The PD-M530/KC type is the same as the PD-M530/KU type with the exception of the following sections.

Mark	Symbol & Description	Part	Remarks	
	Tymes a boompton	PD-M530/KU type	PD-M530/KC type	Remarks
	CD packing case Operating instructions (French)	PHG1447	PHG1449 PRC1026	For packing

Note: As to the SCHEMATIC DIAGRAM and P.C. BOARDS CONNECTION DIAGRAM, refer to those of PD-M530 /KU type.

# 8.2 FOR PD-M435/KC, HEM, HB AND PD-M435-S/HEWM TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD-M435/KC, HEM, HB and PD-M435-S/HEWM types are the same as the PD-M435/ KU type with the exception of the following sections.

1				Part No.			
Mark	Symbol & Description	PD-M435 /KU type	PD-M435 /KC type	PD-M435 /HEM type	PD-M435 /HB type	PD-M435-S /HEWM type	Remarks
<u>↑</u>	Mother board assembly Power transformer (AC120V) Power transformer (AC220V,240V) AC power cord	PWM1310 PTT1124	PWM1310 PTT1124	PWM1312 PTT1125	PWM1312 PTT1125	PWM1312 PTT1125	
<u>A</u>	Strain relief CD packing case Connection cord with mini plug Leg assembly Insulator	CM-22C PHG1448 PDE-319 REC-434	PDG1002 CM-22C PHG1444 PDE-319 REC-434	PDG1003 CM-22B PHG1444 	PDG1004 CM-22B PHG1444 	PDG1003 CM-22B PHG1514  VNK1095	For packing
	Stopper Operating instructions (English) Operating instructions (French) Operating instructions (English/French/Dutch/Italian / German/Swedish/Spanish / Portgauese)	PRB1124	PRB1124 PRC1025	PNM1070 ••••• • PRE1121	PNM1070 PRB1124	PNM1070 PRE1121	
	Display window Headphone knob Program button Program button S Power button	PAM1375 PAC1370 PAC1452 PAC1453	PAM1375 PAC1370 PAC1452 PAC1453	PAM1417 PAC1370 PAC1452 PAC1453	PAM1417 PAC1370 PAC1452 PAC1453	PAM1417 PAC1402 PAC1500	
	Power button S Disc button Disc button S Function button Function button S	PAC1454 PAC1455	PAC1454 PAC1455	PAC1454 PAC1455	PAC1454 PAC1455	PAC1487 PAC1490 PAC1489	
	Mode button Mode button S Door name plate Door name plate S Program name plate	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1456 PAM1370 PAM1372	PAC1488 PAM1421	
	Program name plate S Function panel assembly Door Door S Bonnet Screw	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131	PEA1054 PNW1532 PYY1131 BBZ30T080FZK	PAM1423 PEA1079 PNW1751 PYY1138	For bonnet

Note: As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M435/KC type, refer to those of PD-M435/KU type.

# MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1312) is the same as the Mother board assembly (PWM1310) with the exception of the following sections.

Mark	Symbol & Description	Part	1	
		PWM1310	PWM1312	Remarks
<u>М</u> <u>М</u>	IC30 D11 - D14 D25 D391 - D394 R391	11ES2 1SS254 RD1/6PM244J	ICP-N10 2W02-5008-L	
	R392 JA391,JA392 (CONTROL IN/OUT)	RD1/6PM102J PKN1004		

# 8.3 FOR PD-M430/KC, HEM, AND HB TYPES

# PD-M435/

# CONTRAST OF MISCELLANEOUS PARTS

The PD-M430/KC, HEM and HB types are the same as the PD-M430/KU type with the exception of the following sections.

			Part	No.	-	Remarks
Mark	Symbol & Description	PD-M430 /KU type	PD-M430 /KC type	PD-M430 /HEM type	PD-M430 /HB type	
<ul><li>♠</li><li>♠</li><li>♠</li><li>♠</li><li>♠</li></ul>	Mother board assembly Headphone board assembly Power transformer (AC120V) Power transformer (AC220V,240V) AC power cord	PWM1307  PTT1124  PDG1002	PWM1307 PTT1124 PDG1002	PWM1309 Non supply PTT1125 PDG1008	PWM1309 Non supply PTT1125 PDG1009	
⚠	Strain relief Leg assembly Insulator Stopper Operating instructions (English)	CM-22C REC-434 	CM-22C REC-434 	CM-22B VNK1095 PNM1070	CM-22B ••••• VNK1095 PNM1070 PRB1124	
	Operating instructions (French) Operating instructions (English/French/Dutch/Italian/ German/Swedish/Spanis/Portgauese) CD packing case	PHG1445	PRC1025 PHG1446	PRE1121 PHG1446	PHG1446	For packing
À	Program name plate Display window Headphone knob Screw	PAM1387 PAM1389	PAM1387 PAM1389	PAM1420 PAM1418 PAC1370	PAM1420 PAM1418 PAC1370 BBZ30T080FZK	For bonnet

Note: As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M430/KC type, refer to those of PD-M430/KU type.

# MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1309) is the same as the Mother board assembly (PWM1307) with the exception of the following sections.

Mark	Combal o Danada	Part	Remarks	
	Symbol & Description	PWM1307	PWM1309	Nemarks
<u>A</u> <u>A</u>	IC30 IC406 D11 - D14 D25 R445,R446 R447,R448	11ES2 RD1/6PM102J	ICP-N10 M5218AP ••••• 2W02-5008-L RD1/6PM471J RD1/6PM471J	

# (PWM1310)

Remarks

For bonnet

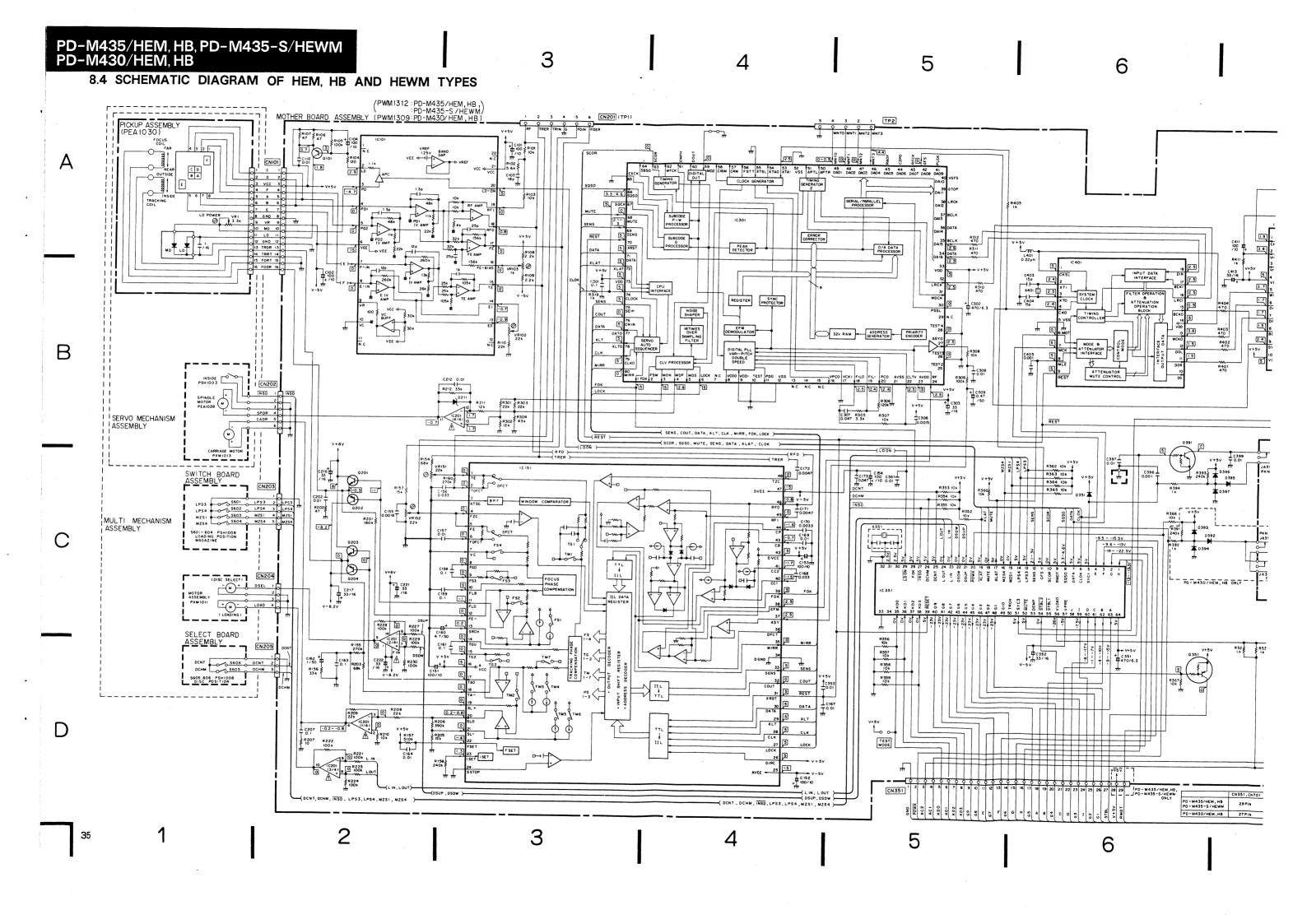
# HEADPHONE BOARD ASSEMBLY

The Headphone board assemblies of PD-M430/HEM and HB types are the same as that of PD-M530/KU and PD-M435/KU types. (See page 29)

# - S Remarks 'pe For packing

i/KC type,

# PD-M530/KC, PD-M435/KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KC, HEM, HB



# 8.5 P. C. BOARD PATTERN OF HEM, HB AND HEWM TYPES

В

D

# LINE VOLTAGE SELECTION

Line voltage can be changed with the following steps.

- 1. Disconnect the AC power cord.
- 2. Remove the bonnet.
- 3. Change the position of the jumper (A) as follows. (Refer to the Mother board assembly.)

Voltage	Jumper (A) position
220V	(1)
240V	2)

4. Stick the line voltage label on the rear panel.

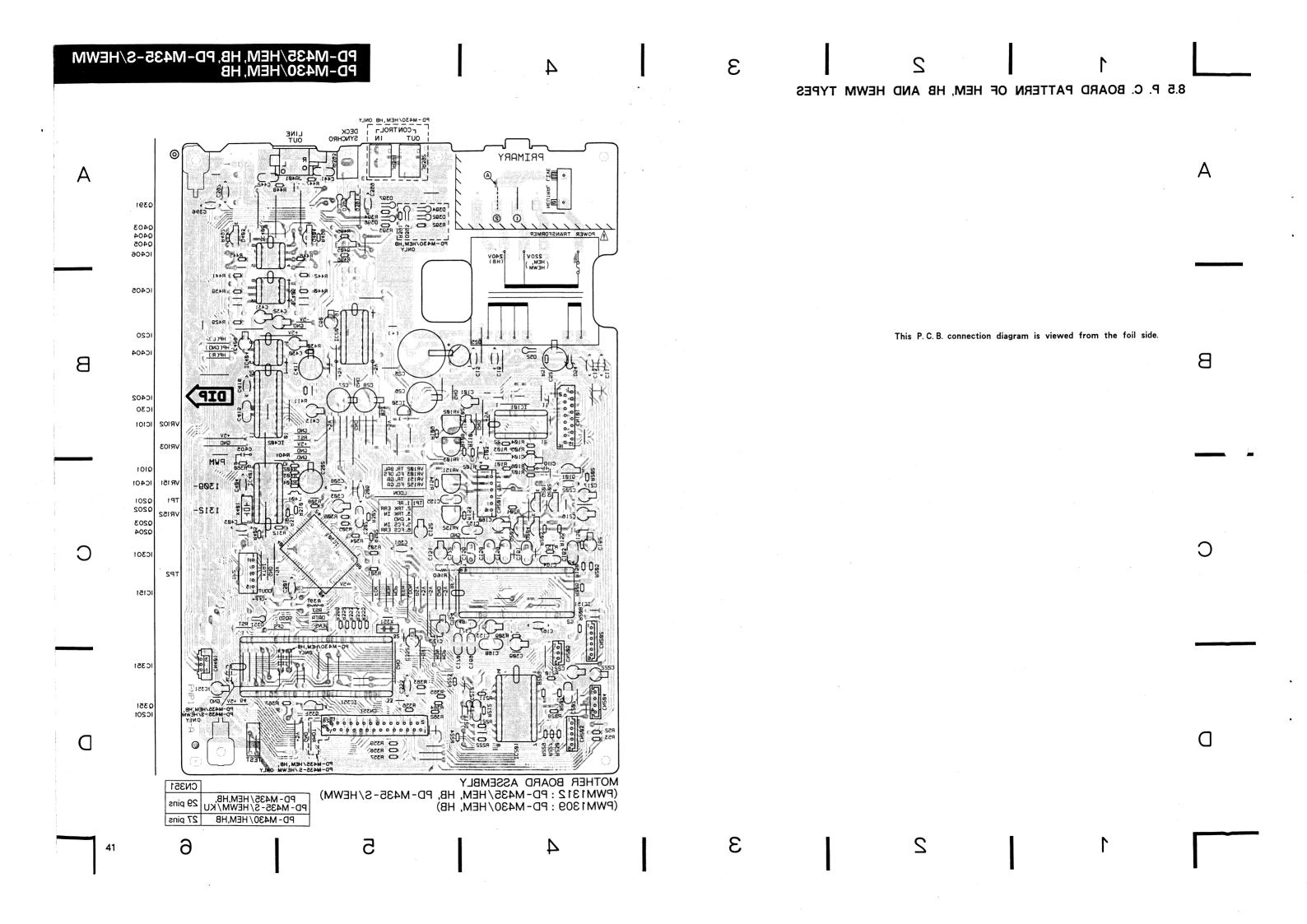
Part No. Description
AAX-193 220V label AAX-192 240V label

P.C.B. pattern diagram indication	Corresponding part symbol	Part name	P.C.B. pattern diagram indication	Corresponding part symbol	Part name
	or E	Transistor	( _ ,		Ceramic capacitor
D S G	or or s	FET	CD		Mylar capacitor
041			\$( )		Styrol capacitor
<b>C</b> =	<b>○</b>	Diode	<u>a</u>	<b>∞—⊭</b> ⊸	Electrolytic capacito (Non polarized)
			Z C		Electrolytic capacito (Noiseless)
aţ	o <b></b>	Zenner diode		<u> </u>	Electrolytic capacito (Polarized)
<b>(</b> =		. Zenner diode -			Electrolytic capacitor (Polarized)
74-	~ <b>`</b>	LED		<b>⊶</b>   ∘	Power capacitor
	<b>─    </b>	Varactor	D	·	Semi-fixed resistor
	<u></u>	Tact switch			Resistor array
0	0 0				
~	~~~.	Inductor	~	<b>~</b> ₩ <b>~</b> ∘	Resistor
		muuctor	0		
0	۰ <i>-</i>	Coil	[-10F]	<b>────</b>	Resonator
		Transformer		·	Thermistor
8 1		Filter			

- 1. This P.C.B. connection diagram is viewed from the parts mounted side.
- The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the above Table.
- 3. The capacitor terminal marked with shows negative terminal.
- 4. The diode marked with O shows cathode side.
  5. The transistor terminal marked with \_\_\_\_ shows emitter.

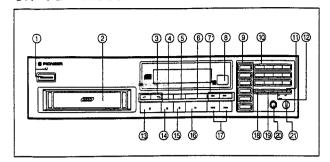
PRIMARY  PRIMARY  POWER TRANSFORMER  POWER TRANSFORMER  POWER TRANSFORMER  POWER TRANSFORMER  POWER TRANSFORMER  POWER TRANSFORMER	PD-M430/HEM, HB ONLY  CONTROL DECK OUT IN SYNCHRO  122 123 124 125 125 125 125 125 125 125 125 125 125	LINE OUT  JA40  RAB  C442  S8  C396  C396	Q391 Q403 Q404 Q405 IC406
DS2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(+)	## C432 C431	IC405 IC404 B IC402 IC30 IC101
	VR103 TR. BRL VR103 FO. OFS VR151 TR. GA VR152 FO. GA LOON SO CASES	Red   PWM   PWM	Q101 1C401 Q201 Q202 Q203 Q204 C301 C
CIPA CIPA CIPA CIPA CIPA CIPA CIPA CIPA	R385 (R355) (CN35) (CN3	RS67 PO-5V GND PO-MASS-EMH HB, PO-MASS-S-FIEWM ONEY	C351
MOTHER BOARD ASSEMBLY (PWM1312: PD-M435/HEM (PWM1309: PD-M430/HEM	, HB, PD-M435-S/HEWM) PD-FPD-FPD-FPD-FPD-FPD-FPD-FPD-FPD-FPD-F	PD-M435/HEM,HB, 29 pins PD-M430/HEM,HB 27 pins	40

2



# 9. PANEL FACILITIES

#### 9.1 PD-M530

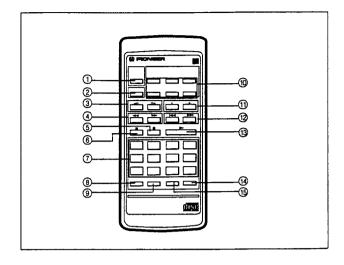


#### **FRONT PANEL**

- 1 POWER STANDBY/ON switch and indicator
- (2) Magazine insertion slot
- (3) AUTO FADER buttons
- (4) TIME button
- (5) REPEAT button
- (6) RANDOM PLAY button
- (7) MANUAL SEARCH buttons (◄◄/►►)
- (8) Remote sensor

Receives the signal from the remote control unit.

- (9) DISC NUMBER buttons (DISC 1 DISC 6)
- (10) TRACK NUMBER/Digit buttons (1-10, +10,  $\ge 20$ )
- 11) TIME FADE EDIT button
- 12 COMPU PGM EDIT button
- (13) EJECT button (▲)
- (14) STOP/CLEAR button (■)
- (15) PAUSE button (II)
- (16) PLAY button (►)
- (17) TRACK search buttons (I◄◄/►►I)
- (18) PGM button
- (19) DELETE button
- (PHONES)
- (21) Headphones volume (PHONES LEVEL)

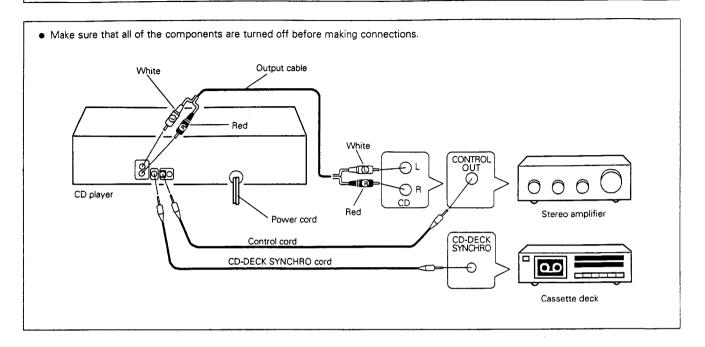


#### **REMOTE CONTROL UNIT**

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- 1 POWER button
- (2) RANDOM PLAY button
- (3) FADE-IN/FADE-OUT buttons
- (4) MANUAL search buttons (◄◄/►►)
- (5) PAUSE button (II)
- (6) STOP button (■)
- (7) Track number/Digit buttons (1-10, +10,  $\geq$  20)
- (8) PGM button
- (9) CHECK button
- 10 DISC NUMBER buttons (1 6)
- (11) OUTPUT LEVEL buttons (+/-)
- (12) TRACK search buttons (⊢◄◄/▶►)
- (13) PLAY button (►)
- (14) DELETE button
- (15) CLEAR button

# CONNECTIONS



#### Making connections

- Connect the OUTPUT jacks of this unit to the input jacks (CD or AUX) of the amplifier. Make sure that the white plugs are connected to the left (L) jacks and the red plugs to the right (R) jacks.
- Be sure not to connect this unit to the amplifier's PHONO jacks, as sound will be distorted and normal playback will not be possible.
- [2] Connect the power cord to a household AC wall outlet or an AC outlet on your amplifier.
- Make sure plugs are inserted fully into the jacks and wall outlet.

# **CD-Deck synchro function**

If you have a Pioneer cassette deck provided with the CD-Deck synchro function, connect the CD-DECK SYNCHRO jacks of the CD player and cassette deck. With this function, synchro recording can be carried out between player and deck.

- For details on connections and operation, refer to the instruction manual supplied with the cassette deck.
- The CD-DECK SYNCHRO cord is not supplied with the CD player.

# System remote control with a Pioneer stereo amplifier that has the mark

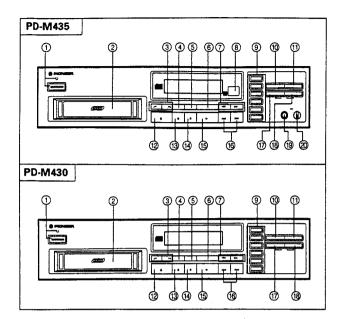
(Available with U.S. and Canadian models only)
When a Pioneer stereo amplifier bearing the mark is used.
connect the CONTROL IN jack on the rear panel of the CD player
to the CONTROL OUT jack of the amplifier. This will enable the
CD player to be controlled using the remote control unit supplied
with the stereo amplifier. If you do not plan to use this feature, it
is not necessary to connect CONTROL IN/OUT jacks.

- The control cord is supplied with the CD player.
- The remote control unit supplied with the amplifier can be used to control Play, Stop, Pause, Track/Disc Search and Disc Change operations.
- For instructions regarding connections and operation, refer to the operating instruction manual provided with your stereo amplifier.

#### NOTES:

- When a control cord is connected to the player's CONTROL !\( \)
   jack, direct control of the player with the remote control unit is
   not possible. Operate the player with the remote control unit
   by aiming it at the amplifier.
- Be sure to connect both of the control cord's plugs securely to the CONTROL IN and CONTROL OUT terminals. Do not connect only one end of the cable.

# 9.2 PD-M435 AND PD-M430

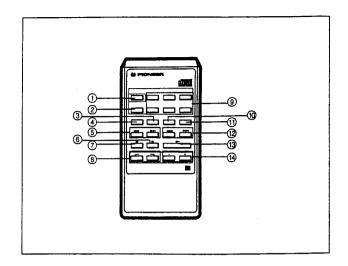


#### **FRONT PANEL**

- 1 POWER STANDBY/ON switch and indicator
- (2) Magazine insertion slot
- (3) AUTO FADER buttons
- (4) TIME button
- (5) REPEAT button
- (6) RANDOM PLAY button
- (7) MANUAL SEARCH buttons (◄◄/▶►)
- (8) Remote sensor (PD-M435 only)
  Receives the signal from the remote control unit.
- (9) DISC NUMBER buttons (DISC 1 DISC 6)
- 10 PROGRAM button
- (11) DELETE button
- (12) EJECT button(▲)
- (13) STOP/CLEAR button (■)
- (14) PAUSE button (II)
- (15) PLAY button (►)
- 16 TRACK search buttons (I◄◄/▶►)
- (17) COMPU PGM EDIT button
- 18 TIME FADE EDIT button
- (19) Headphones jack (PHONES)
- 20 Headphones volume (PHONES LEVEL)

#### NOTE

Items (9) and (20) are included on the U.K. and European models of the PD-M430.

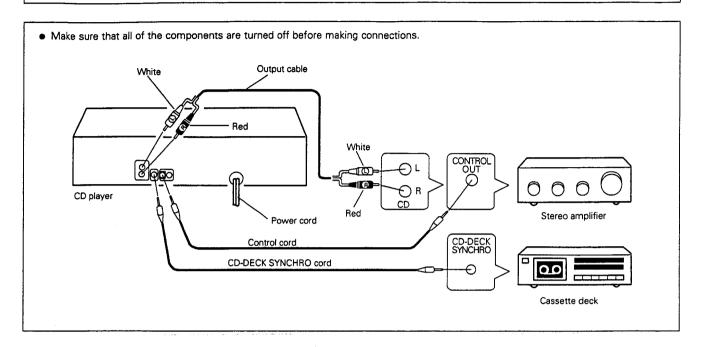


#### **REMOTE CONTROL UNIT (PD-M435 only)**

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- 1 POWER button
- (2) RANDOM PLAY button
- (3) CHECK button
- (4) PGM button
- (5) MANUAL search buttons (◄◄/▶►)
- 6 PAUSE button (II)
- (7) STOP button (■)
- (8) FADE-IN/FADE-OUT buttons
- (9) DISC NUMBER buttons (1 6)
- 10 CLEAR button
- (11) DELETE button
- (12) TRACK search buttons (I◄◄/►►)
- (13) PLAY button (►)
- (14) OUTPUT LEVEL buttons (+/-)

# **CONNECTIONS**



#### Making connections

- 1 Connect the OUTPUT jacks of this unit to the input jacks (CD or AUX) of the amplifier. Make sure that the white plugs are connected to the left (L) jacks and the red plugs to the right (R) jacks.
- Be sure not to connect this unit to the amplifier's PHONO jacks, as sound will be distorted and normal playback will not be possible.
- 2 Connect the power cord to a household AC wall outlet or an AC outlet on your amplifier.
- Make sure plugs are inserted fully into the jacks and wall outlet.

#### **CD-Deck synchro function**

If you have a Pioneer cassette deck provided with the CD-Deck synchro function, connect the CD-DECK SYNCHRO jacks of the CD player and cassette deck. With this function, synchro recording can be carried out between player and deck.

- For details on connections and operation, refer to the instruction manual supplied with the cassette deck.
- The CD-DECK SYNCHRO cord is not supplied with the CD player.

# System remote control with a Pioneer stereo amplifier that has the mark

(Available with the PD-M430 and U.S. and Canadian models of the PD-M435 only)

When a Pioneer stereo amplifier bearing the mark is used, connect the CONTROL IN jack on the rear panel of the CD player to the CONTROL OUT jack of the amplifier. This will enable the CD player to be controlled using the remote control unit supplied with the stereo amplifier. If you do not plan to use this feature, it is not necessary to connect CONTROL IN/OUT jacks.

- The control cord is supplied with the CD player.
- The remote control unit supplied with the amplifier can be used to control Play, Stop, Pause, Track/Disc Search and Disc Change operations.
- For instructions regarding connections and operation, refer to the operating instruction manual provided with your stereo amplifier.

#### NOTES:

- When a control cord is connected to the player's CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the amplifier.
- Be sure to connect both of the control cord's plugs securely to the CONTROL IN and CONTROL OUT terminals. Do not connect only one end of the cable.

# 10. SPECIFICATIONS 10. 1 PD-M530

1. General	
Type	. Compact disc digital audio system
Power requirements  European models  U.K., Australian models  LLS Canadian models	AC 220 V, 50/60 Hz AC 240 V, 50/60 Hz AC 120 V, 60 Hz AC 110/120 - 127/220/240 V (switchable) 50/60 Hz
Other models	
Operating temperature	+5°C - +35°C +41°F - +95°F
Weight	+4177 - +957 4.6 kg (10 lb, 3 oz)
External dimensions	420(W) X 326(D) X 104(H) mm 6-9/16(W) X12-27/32(D) X 4-1/8(H) in

2. Audio section	
Frequency response	2 Hz - 20 kHz
S/N ratio	106 aB or more (EIAJ)
Dynamic range	92 dB or more (EIAJ)
Channel senaration	98 dB of more (EIAJ)
Harmonic distortion	0.04% or less (EIAJ)
Output valtage	Z.UV
More and flutter Limit	of measurement (±0.001% W.PEAK)
VVOW and notter Zinne	or less (EIAJ)
Channels	2-channel (stereo)
C) (a) (() (a) ()	****************

## 3. Output terminal

Audio line output
Headphone jack with volume control
Control input/output jacks (Equipped with U.S. and Canadian models
only)
CD-DECK SYNCHRO jack

#### 4. Functions

Number of discs to be stored - maximum 6.

Basic operation buttons
• PLAY, PAUSE, STOP

Search function

- Disc Search
- Track Search
- Manual Search

## Programming

- Maximum 32 steps
- Pause
- Program check/Correction (remote control unit)
- Program CLEAR (single track or all tracks)

# Repeat functions

- 1 track repeat
- All discs repeat
- Program repeat
- Random play repeat
- Delete play repeat
- Delete random play repeat

#### Random play

- Random play (repeat also available)
- Delete random play (repeat also available)

#### Switching display

Time consumed, remaining time (track/disc), and total time

#### Timer start

# Digital Level Controller

Volume control can be done with the remote control unit.

#### One-touch Fade

Fade-in and fade-out possible.

#### Time Fade Editing

Selects the tracks for one side of the tape within the specified

# Compu Program Editing

Selects the tracks for both sides of the tape within the specified

#### 5 Accessories

Э.	Accessories	
•	Remote control unit	1
•	Size AAA/R03/dry batteries	4
•	Six-compact-disc magazine	ı
_	Output cable	1
•	Control cord	1
	ULS and Canadian models only)	
•	Operating instructions	1

#### NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

The Magazine Type Multi-Play CD Players with (2020) mark and the Magazines with the same mark are compatible for 5-inch (12cm) discs

# 10. 2 PD-M435 AND PD-M430

# 1 Caparal

1. General	
Type	Compact disc digital audio system
Power requirements	
European models	AC 220 V, 50/60 Hz
U.K., Australian models	AC 240 V, 50/60 Hz
	AC 120 V, 60 Hz
	AC 110/120 - 127/220/240 V
Calc. models	(switchable) 50/60 Hz
Power consumption	
European, U.K., Australian,	
U.S., Canadian models	10W
	10W
	+5°C - +35°C
	+41°F - +95°F
Weight	4.6 kg (10 lb, 3 oz)
External dimensions	
U.K., European models	420(W) X 326(D) X 104(H) mm
16-	-9/16(W) X12-27/32(D) X 4-1/8(H) in
	420(W) X 326(D) X 94(H) mm
16-9/ <sup>-</sup>	16(W) X12-27/32(D) X 3-23/32(H) in

#### 2. Audio section

Frequency response	2 Hz - 20 kHz
S/N ratio	106 dB or more (EIAJ)
Dynamic range	92 dB or more (EIAJ)
Channel separation	98 dB or more (EIAJ)
Harmonic distortion	0.04% or less (EIAJ)
Output voltage	2.0V
Wow and flutter	Limit of measurement (±0.001% W.PEAK)
	or less (EIAJ)
Channels	2-channel (stereo)

#### 3. Output terminal

Audio line output

Headphone jack with volume control (PD-M435 and U.K. and European models of the PD-M430 only) Control input/output jacks (Equipped with the PD-M430 and U.S. and Canadian models of the PD-M435 only) CD-DECK synchro jack

# 4. Functions

Number of discs to be stored - maximum 6.

Basic operation buttons

PLAY, PAUSE, STOP

#### Search function

- Disc Search
- Track Search
- Manual Search

#### Programming

- Maximum 32 steps
- Pause
- Program check/Correction (remote control unit supplied with the PD-M435 only)
- Program CLEAR (single track or all tracks)

#### Repeat functions

- 1 track repeat
- All discs repeat
- Program repeat
- Random play repeat
- Delete play repeat
- Delete random play repeat

#### Random play

- Random play (repeat also available)
- Delete random play (repeat also available)

#### Switching display

• Time consumed, remaining time (track/disc), and total time

#### Timer start

#### Digital Level Controller (PD-M435 only)

Volume control can be done with the remote control unit.

#### One-touch Fade

Fade-in and fade-out possible.

#### Time Fade Editing

Selects the tracks for one side of the tape within the specified time.

#### Compu Program Editing

Selects the tracks for both sides of the tape within the specified

#### 5. Accessories

٠.	AUCCOOLICO	
•	Remote control unit (PD-M435 only)	1
•	Size AAA/R03/dry batteries (PD-M435 only)	2
•	Six-compact-disc magazine	1
•	Output cable	1
•	Control cord	1
	(PD-M430 and U.S. and Canadian models of the	
	PD-M435 only)	
•	Operating instructions	1

#### NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

The Magazine Type Multi-Play CD Players with @@@ mark and the Magazines with the same mark are compatible for 5inch (12cm) discs